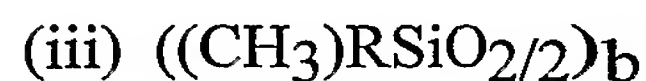
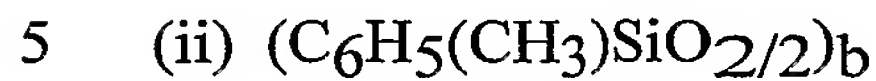
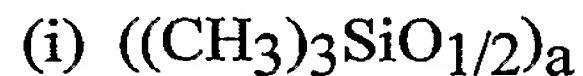


## CLAIM OR CLAIMS

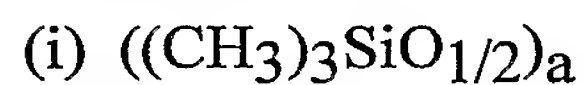
1. A method of treating fibers, textiles, or leather comprising applying to fibers, textiles, or leather 0.1-15 weight percent based on the weight of the fibers, textiles, or leather of a treatment composition comprising a blend containing a silicone resin component and a fluorocarbon component; the fluorocarbon component comprising one of an emulsion containing a fluoroalkyl acrylate copolymer or an emulsion containing a fluorinated polyurethane; the silicone resin component comprising one of (i) an aminofunctional silicone resin, (ii) an emulsion containing an aminofunctional silicone resin, (iii) a carbinol functional silicone resin, (iv) an emulsion containing a carbinol functional silicone resin, (v) an epoxy functional silicone resin, or (vi) an emulsion containing an epoxy functional silicone resin.
2. A method of treating fibers, textiles, or leather comprising applying to fibers, textiles, or leather 0.1-15 weight percent based on the weight of the fibers, textiles, or leather of a treatment composition comprising a blend containing a silicone resin component and a fluorocarbon component; the fluorocarbon component comprising at least one of an emulsion containing a fluoroalkyl acrylate copolymer or an emulsion containing a fluorinated polyurethane; the silicone resin component comprising at least one of (i) an aminofunctional silicone resin, (ii) an emulsion containing an aminofunctional silicone resin, (iii) a carbinol functional silicone resin, (iv) an emulsion containing a carbinol functional silicone resin, (v) an epoxy functional silicone resin, or (vi) an emulsion containing an epoxy functional silicone resin.
3. A method according to Claim 1 or 2 in which the aminofunctional silicone resin comprises the units:
- (i)  $(R_3SiO_{1/2})_a$   
(ii)  $(R_2SiO_{2/2})_b$   
(iii)  $(RSiO_{3/2})_c$  and  
(iv)  $(SiO_{4/2})_d$
- where R is independently an alkyl group, an aryl group, or an aminofunctional hydrocarbon group; a is greater than zero to 0.5; b is zero to 0.4; c is greater than zero to 0.93; d is less than 0.3; and the sum of  $a + b + c + d$  is one.

4. A method according to Claim 1 or 2 in which the aminofunctional silicone resin is a resin containing units selected from the group consisting of:

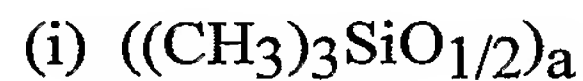
I. the units:



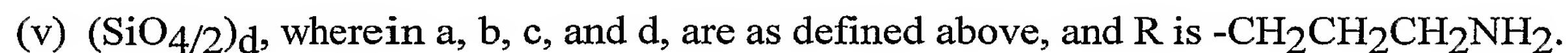
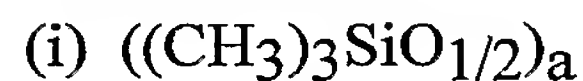
II. the units:



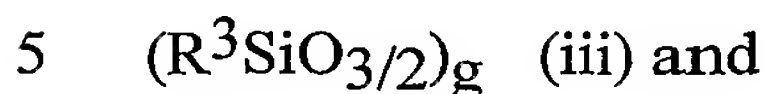
III. the units:



V. the units:



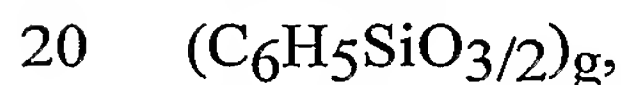
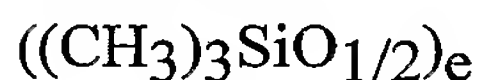
5. A method according to any of Claims 1 to 4 in which the carbinol functional silicone resin comprises the units:



where  $R^1$  and  $R^2$  are independently a hydrogen atom, an alkyl group having 1-8 carbon atoms, an aryl group, a carbinol group having at least 3 carbon atoms and being free of aryl groups, or an aryl-containing carbinol group having at least 6 carbon atoms;  $R^3$  is an alkyl group having 1-8 carbon atoms or an aryl group; e is less than 0.6; f is zero to 0.4; g is greater than zero; h is less than 0.5; the value of  $e + f + g + h$  is one; provided that when each  $R^2$  is methyl, the value of f is less than 0.3.

6. A method according to any of Claims 1-4 in which the carbinol functional silicone resin is a resin containing units selected from the group consisting of:

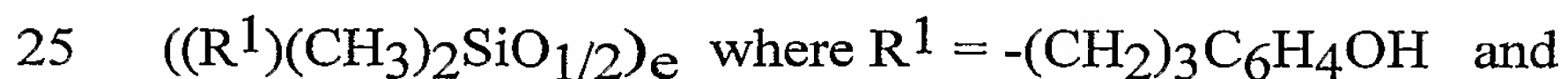
I. the units:



II. the units:



III. the units:



IV. the units:



V. the units:

$((R^1)(CH_3)_2SiO_{1/2})_e$  where  $R^1 = -(CH_2)_3OH$

$(CH_3SiO_{3/2})_g$  and

$(C_6H_5SiO_{3/2})_g$ ,

5 VI. the units:

$((CH_3)_3SiO_{1/2})_e$

$((R^2)CH_3SiO_{2/2})_f$  where  $R^2 = -(CH_2)_3OH$

$((C_6H_5)CH_3SiO_{2/2})_f$  and

$(C_6H_5SiO_{3/2})_g$ ,

10 VII. the units:

$((CH_3)_3SiO_{1/2})_e$

$((R^1)(CH_3)_2SiO_{1/2})_e$  where  $R^1 = -(CH_2)_3OH$  and

$(C_6H_5SiO_{3/2})_g$ , and

VIII. the units:

15  $((R^1)(CH_3)_2SiO_{1/2})_e$  where  $R^1 = -CH_2CH(CH_3)CH_2OH$

$((H)(CH_3)_2SiO_{1/2})_e$  and

$(C_6H_5SiO_{3/2})_g$ ,

where e is 0.3-0.5, f is 0-0.2, g is 0.5-0.8, and h is zero..

20

7. A method according to any of Claims 1 to 6 in which the epoxy functional silicone resin comprises the units:

(i)  $(R^7)_3SiO_{1/2})_j$

(ii)  $(R^7)_2SiO_{2/2})_k$

25 (iii)  $(R^7SiO_{3/2})_l$  and

(iv)  $(SiO_{4/2})_m$ .

where  $R^7$  is independently a monovalent hydrocarbon group or an epoxyfunctional substituted hydrocarbon group having 1-18 carbon atoms; j is greater than zero to 0.6; k is zero to 0.4; l is greater than zero; and m is less than 0.3, the sum of  $j + k + l + m$  is equal to

one; provided that 0.1-30 mole percent of silicon atoms in units (i), (i), or (iii), are monovalently attached to the hydrocarbon groups containing epoxy or hydrolysis products thereof.

- 5 8. A composition for treating fibers, textiles, or leather comprising a blend containing a silicone resin component and a fluorocarbon component; the fluorocarbon component comprising one of an emulsion containing a fluoroalkyl acrylate copolymer, or an emulsion containing a fluorinated polyurethane; the silicone resin component comprising one of (i) an aminofunctional silicone resin, (ii) an emulsion containing an aminofunctional silicone resin,  
10 (iii) a carbinol functional silicone resin, (iv) an emulsion containing a carbinol functional silicone resin, (v) an epoxy functional silicone resin, or (vi) an emulsion containing an epoxy functional silicone resin.
9. A composition for treating fibers, textiles, or leather comprising a blend containing a  
15 silicone resin component and a fluorocarbon component; the fluorocarbon component comprising at least one of an emulsion containing a fluoroalkyl acrylate copolymer or an emulsion containing a fluorinated polyurethane; the silicone resin component comprising at least one of (i) an aminofunctional silicone resin, (ii) an emulsion containing an aminofunctional silicone resin, (iii) a carbinol functional silicone resin, (iv) an emulsion  
20 containing a carbinol functional silicone resin, (v) an epoxy functional silicone resin, or (vi) an emulsion containing an epoxy functional silicone resin.

10. A composition according to Claim 8 or 9 in which the aminofunctional silicone resin comprises the units:

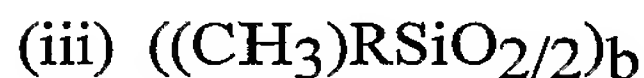
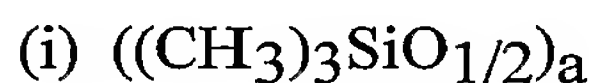


where R is independently an alkyl group, an aryl group, or an aminofunctional hydrocarbon group; a is greater than zero to 0.4; b is zero to 0.4; c is greater than zero to 0.93; d is less than 0.3; and the sum of  $a + b + c + d$  is one.

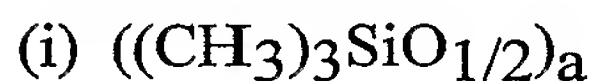
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11. A composition according to Claim 8 or 9 in which the aminofunctional silicone resin is a resin containing units selected from the group consisting of:

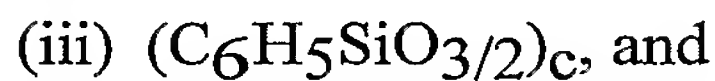
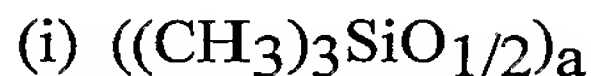
I. the units:



II. the units:



III. the units:



IV. the units:



(iv)  $(\text{C}_6\text{H}_5\text{SiO}_{3/2})_c$

(v)  $(\text{SiO}_{4/2})_d$ ; wherein a, b, c, and d, are as defined above, and R is  $-\text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2$ .

12. A composition according to any of Claims 8-11 in which the carbinol functional silicone resin comprises the units:

$(\text{R}^1_3\text{SiO}_{1/2})_e$  (i)

$(\text{R}^2_2\text{SiO}_{2/2})_f$  (ii)

$(\text{R}^3\text{SiO}_{3/2})_g$  (iii) and

$(\text{SiO}_{4/2})_h$  (iv)

10 where  $\text{R}^1$  and  $\text{R}^2$  are independently a hydrogen atom, an alkyl group having 1-8 carbon atoms, an aryl group, a carbinol group having at least 3 carbon atoms and being free of aryl groups, or an aryl-containing carbinol group having at least 6 carbon atoms;  $\text{R}^3$  is an alkyl group having 1-8 carbon atoms or an aryl group; e is less than 0.6; f is zero to 0.4; g is greater than zero; h is less than 0.5; the value of  $e + f + g + h$  is one; provided that when each  $\text{R}^2$  is  
15 methyl, the value of f is less than 0.3.

13. A composition according to any of Claims 8-11 in which the carbinol functional silicone resin is a resin containing units selected from the group consisting of:

I. the units:

20  $((\text{CH}_3)_3\text{SiO}_{1/2})_e$

$((\text{R}^2)\text{CH}_3\text{SiO}_{2/2})_f$  where  $\text{R}^2 = -(\text{CH}_2)_3\text{C}_6\text{H}_4\text{OH}$

$((\text{C}_6\text{H}_5)\text{CH}_3\text{SiO}_{2/2})_f$  and

$(\text{C}_6\text{H}_5\text{SiO}_{3/2})_g$ ,

II. the units:

25  $((\text{R}^1)(\text{CH}_3)_2\text{SiO}_{1/2})_e$  where  $\text{R}^1 = -(\text{CH}_2)_3\text{C}_6\text{H}_4\text{OH}$  and

$(\text{C}_6\text{H}_5\text{SiO}_{3/2})_g$ ,

III. the units:

$((\text{R}^1)(\text{CH}_3)_2\text{SiO}_{1/2})_e$  where  $\text{R}^1 = -(\text{CH}_2)_3\text{C}_6\text{H}_4\text{OH}$  and

$(\text{CH}_3\text{SiO}_{3/2})_g$ ,

IV. the units:

$((R^1)(CH_3)_2SiO_{1/2})_e$  where  $R^1 = -(CH_2)_3OH$  and  
 $(C_6H_5SiO_{3/2})_g$ ,

V. the units:

5  $((R^1)(CH_3)_2SiO_{1/2})_e$  where  $R^1 = -(CH_2)_3OH$   
 $(CH_3SiO_{3/2})_g$  and  
 $(C_6H_5SiO_{3/2})_g$ ,

VI. the units:

$((CH_3)_3SiO_{1/2})_e$   
 10  $((R^2)CH_3SiO_{2/2})_f$  where  $R^2 = -(CH_2)_3OH$   
 $((C_6H_5)CH_3SiO_{2/2})_f$  and  
 $(C_6H_5SiO_{3/2})_g$ ,

VII. the units:

$((CH_3)_3SiO_{1/2})_e$   
 15  $((R^1)(CH_3)_2SiO_{1/2})_e$  where  $R^1 = -(CH_2)_3OH$  and  
 $(C_6H_5SiO_{3/2})_g$ , and

VIII. the units:

$((R^1)(CH_3)_2SiO_{1/2})_e$  where  $R^1 = -CH_2CH(CH_3)CH_2OH$   
 $((H)(CH_3)_2SiO_{1/2})_e$  and  
 20  $(C_6H_5SiO_{3/2})_g$ ,  
 where e is 0.3-0.5, f is 0-0.2, g is 0.5-0.8, and h is zero.

14. A composition according to any of Claims 8-13 in which the epoxy functional silicone resin comprises the units:

25 (i)  $(R^7)_3SiO_{1/2})_j$   
 (ii)  $(R^7)_2SiO_{2/2})_k$   
 (iii)  $(R^7SiO_{3/2})_l$  and  
 (iv)  $(SiO_{4/2})_m$ .



where  $R^7$  is independently a monovalent hydrocarbon group or an epoxyfunctional substituted hydrocarbon group having 1-18 carbon atoms; j is greater than zero to 0.6; k is zero to 0.4; l is greater than zero; and m is less than 0, the sum of  $j + k + l + m$  is equal to one; provided that 0.1-30 mole percent of silicon atoms in units (i), (i), or (iii), are

5 monovalently attached to the hydrocarbon groups containing epoxy or hydrolysis products thereof.